

IN THE CLAIMS

Claims 1-14 are herein canceled. Claims 15-53 are herein added.

✓ 1-14 (Cancelled)

1 15. (New) A storage domain system to provide variable capabilities of a SAN
2 (Storage Area Network), comprising the steps of:

3 a first logical volume to associate a first host conducting transactions on the SAN
4 with a first storage device performing transactions received from the first
5 host;
6 a storage domain to configure the first logical volume with logical capabilities
7 separate from existing physical capabilities of the first storage device
8 based on needs of the first host.

1 16. (New) The system of claim 15, further comprising one or more storage
2 domain servers, a first storage domain server containing the first logical volume.

1 17. (New) The system of claim 15, further comprising a second storage
2 domain server containing a second logical volume, wherein the storage domain
3 configures both the first and second logical volumes.

1 18. (New) The system of claim 15, further comprising a second logical
2 volume, wherein the first storage device is associated with both the first and second
3 logical volumes.

1 19. (New) The system of claim 15, further comprising a second logical
2 volume, wherein the first host is associated with both the first and second logical
3 volumes.

1 20. (New) The system of claim 15, wherein the first logical volume is
2 associated with a portion of a capacity of the first host.

1 21. (New) The system of claim 15, further comprising a second host, wherein
2 the first logical volume is associated with both the first and second hosts.

1 22. (New) The system of claim 15, further comprising a second storage
2 domain that configures logical capabilities to the first volume separate from logical
3 capabilities configured by the first storage domain.

1 23. (New) The system of claim 22, wherein the first domain is associated
2 with a first user of the first host and the second domain is associated with a second user
3 of the first host.

1 24. (New) The system of claim 15, further comprising a second storage
2 device associated with a second logical volume, wherein the first host is associated with
3 both the first device comprising a first operating system and a second host comprising a
4 second operating system, and the first storage domain provides a common interface to an
5 operating system of the first host.

1 25. (New) The system of claim 15, wherein logical capabilities comprise a
2 guaranteed storage capacity.

1 26. (New) The system of claim 15, wherein logical capabilities comprise a
2 guaranteed I/O bandwidth.

1 27. (New) The system of claim 15, wherein logical capabilities comprise a
2 guaranteed availability.

1 28. (New) The system of claim 15, wherein logical capabilities comprise a
2 guaranteed performance.

1 29. (New) The system of claim 15, wherein logical capabilities comprise a
2 guaranteed integrity.

1 30. (New) A storage domain system to provide variable capabilities of a
2 SAN (Storage Area Network), comprising:
3 one more hosts to conduct data transactions within the SAN;
4 one or more storage devices to perform the data transactions received from the
5 one or more hosts;

6 one or more logical volumes to associate physical capabilities of the one or more
7 hosts with the one or more storage devices; and
8 one or more storage domains to configure logical capabilities to the one or more
9 logical volumes separate from existing physical capabilities based on
10 needs of the one or more hosts.

1 31. (New) In a storage domain system, a method of providing variable
2 capabilities of a SAN (Storage Area Network), comprising the steps of:
3 associating a first host conducting transactions on the SAN with a first storage
4 device performing transactions received from the first host through a first
5 logical volume;
6 configuring the logical volume with logical capabilities separate from existing
7 physical capabilities of the first storage device based on needs of the first
8 host through a storage domain.

1 32. (New) The method of claim 31, wherein the configuring the logical
2 volume comprises:
3 configuring logical capabilities in a first storage domain server containing the first
4 storage volume; and
5 configuring logical capabilities in a second storage domain server containing a
6 second logical volume.

1 33. (New) The method of claim 31, wherein the associating the first host
2 comprises associating the first host with both the first logical volume and a second logical
3 volume.

1 34. (New) The method of claim 31, wherein the associating the first host
2 comprises associating the first storage device with the first logical volume and a second
3 logical volume.

1 35. (New) The method of claim 31, wherein the associating the first host
2 comprises associating the first storage with both a first logical volume and the second
3 logical volume.

1 36. (New) The method of claim 31, wherein the associating the first host
2 comprises associating the first host and a second host with the first logical volume.

1 37. (New) The method of claim 31, wherein the configuring the first logical
2 volume comprises configuring the first logical volume with logical capabilities through a
3 second domain separate from logical capabilities configured by the first storage domain.

1 38. (New) The method of claim 37, wherein the associating the first host
2 comprises associating the first host with the first user of the first host and a associating a
3 second user of the first host through a second domain.

1 39. (New) The method of claim 31, wherein the associating the first host
2 comprises:

3 associating the first host with both the first device comprising a first operating
4 system and a second host comprising a second operating system,
5 wherein the configuring further comprises provides a common interface to an
6 operating system of the first host.

1 40. (New) The method of claim 31, wherein logical capabilities comprise a
2 guaranteed storage capacity.

1 41. (New) The method of claim 31, wherein logical capabilities comprise a
2 guaranteed I/O bandwidth.

1 42. (New) The method of claim 31, wherein logical capabilities comprise a
2 guaranteed availability.

1 43. (New) The method of claim 31, wherein logical capabilities comprise a
2 guaranteed performance.

1 44. (New) The method of claim 31, wherein logical capabilities comprise a
2 guaranteed integrity.

1 45. (New) A computer product comprising a computer-readable medium
2 having computer instructions and data embodied thereon for, in a storage domain system,
3 a method of providing variable capabilities of a SAN (Storage Area Network), the
4 method comprising the steps of:

5 associating a first host conducting transactions on the SAN with a first storage
6 device performing transactions received from the first host through a first
7 logical volume;
8 configuring the logical volume with logical capabilities separate from existing
9 physical capabilities of the first storage device based on needs of the first
10 host through a storage domain.

1 46. (New) The computer product of claim 45, wherein the configuring the
2 logical volume comprises:
3 configuring logical capabilities in a first storage domain server containing the first
4 storage volume; and
5 configuring logical capabilities in a second storage domain server containing a
6 second logical volume.

1 47. (New) The computer product of claim 45, wherein the associating the first
2 host comprises associating the first host with both the first logical volume and a second
3 logical volume.

1 48. (New) The computer product of claim 45, wherein the associating the first
2 host comprises associating the first storage device with the first logical volume and a
3 second logical volume.

1 49. (New) The computer product of claim 45, wherein the associating the first
2 host comprises associating the first storage with both a first logical volume and the
3 second logical volume.

1 50. (New) The computer product of claim 45, wherein the associating the first
2 host comprises associating the first host and a second host with the first logical volume.

1 51. (New) The computer product of claim 45, wherein the configuring the
2 first logical volume comprises configuring the first logical volume with logical
3 capabilities through a second domain separate from logical capabilities configured by the
4 first storage domain.

1 52. (New) The computer product of claim 51, wherein the associating the first
2 host comprises associating the first host with the first user of the first host and a
3 associating a second user of the first host through a second domain.
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1 53. (New) The computer product of claim 45, wherein the associating the first
2 host comprises:
3 associating the first host with both the first device comprising a first operating
4 system and a second host comprising a second operating system,
5 wherein the configuring further comprises provides a common interface to an
6 operating system of the first host.
